

CORNERSTONE JUNIOR SCHOOL

MOCK (ONE) EXAMINATIONS, 2025

SUBJECT : MATHEMATICS

DURATION : 2 HOURS 30 MINUTES

Index No.

EMIS NO.					PERSONAL NO.		

Candidate's Name :

Candidate's Signature :

Emis No. :

District Name : Jinja city

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

Read the following instructions carefully:

1. This paper has **two** sections: **A** and **B**.
2. All the working for both sections **A** and **B**
must be shown in the spaces provided.

FOR EXAMINER'S USE ONLY		
SECTION	MARKS	TOTAL MARKS
A		
B		

3. All working must be done using a blue or black ball-point pen or fountain pen. Any work done in pencil other than graphs, pictures and diagrams will **not** be marked.
4. **No calculators** are allowed in the examination room.
5. Unnecessary changes of work may lead to **loss** of marks.
6. Any handwriting that cannot easily be read may lead to **loss of marks**.
7. Do **not** fill anything in the boxes indicated: "**For Examiners' Use Only**".

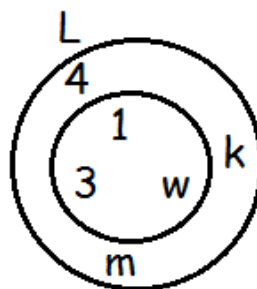
SECTION A

1. Divide: 42 by 2

2. Write 40013 in words.

3. Simplify: $4m - 5n + m - n$

4. Use the diagram below to answer questions. Find $n(K \cap L)^1$



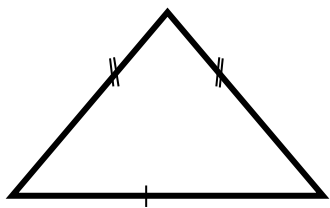
5. Work out the product of $2\frac{1}{4}$ and $\frac{2}{3}$

6. Expand 1101_{two} using powers of two.

7. Simplify: $\frac{3.82 + 5.18}{3}$

8. A parcel weighs 3.75kg. How many grams does the same parcel weigh?

9. How many lines of symmetry has the shape?



10. A motorist uses 2 litres of petrol to cover a distance of 5km. How much fuel it can use for 40km?

11. Mugote is 17yrs now. Represent his age using tallies.

12. Find the sum of the next two numbers in the series.

2, 1.8, 1.6, 1.4, _____, _____

13. Gilbert borrowed shs.50,000 from a money lender at a rate of 2.5% per month. What interest will he pay after the given period of 6 months?

14. Find the average of 5, 3, 2t and 2 and 3t.

15. Simplify: $3^2 \times 2^0 \times 3^3$

16. Use distributive property to work put: $100 \div 5 - 25 \div 5$	17. Using a ruler and a pair of compasses only construct an angle of 15° .
18. Ali had notes of two thousand shillings and five thousand shillings. How many coins of five hundred shillings are equivalent to the notes.	
19. A tailor had 13.2m of cloth. If 3.4m is used to make address. How many centimeters of cloth remained?	20. The bearing of our latrine from the classroom is 082° . What is the bearing of our classroom from the latrine?
SECTION B	
21(a) Give the place value of 3 in 132 _{five} (1mk)	

b) Find the range of the value of 3 and 4 in 401.3 (3mks)

c) Write 40.13 in expanded form using place values. (1mk)

22. if $F_m = \{2_1, 3_1, 3_2\}$ and $F_{30} = \{2_1, 3_1, k\}$

a) Find the value of k.

(2mks)

b) What is the value of m? (1mk)

c) Find the LCM of m and 30. (2mks)

23. The table below shows marks scored by candidates in a class.

No. of candidates	5	2	1	1
Percentage mark	82	45	94	36

a) How many candidates sat the test?

(1mk)

b) Find how many candidates scored below the mean mark. (3mks)

c) Find their modal score in the test. (1mk)

24. The interior angle of a regular polygon is 5 times the exterior angle.

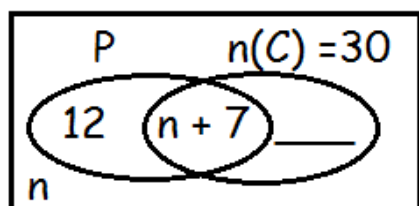
a) Name the polygon. (3mks)

b) Find the interior angle sum

(2mks)

25. At a party of 49 guests, 12 took Pepsi only, $n + 7$ took cocacola (C) and Pepsi (P), 30 took coca-cola while n took neither of the drinks.

a) Complete the Venn diagram. (1mk)



b) How many guests took both pespsi and cococola?

(3mks)

c) Find how many guests took cocacola only.

(1mk)

26. With the help of a pair of a compasses and a ruler only, construct a parallelogram ABCD such that $\overline{AB} = 7\text{cm}$, angle $ABC = 60^\circ$ and $\overline{BC} = 5\text{cm}$.

(4mks)

ii) Measure line AC

(1mk)

27(a) Solve for y: $\frac{1}{2}(3y - 6) - (y + 1) = 0$

(3mks)

b) Hafuwa is 12cm shorter than Kayendo. If the sum of their heights is 96cm. Find Hafuwa's height.

(2mks)

28. A driver left town A for town C driving at 50km/hr for 2hrs before he covered the remaining 80km in $1\frac{1}{2}$ hr after resting for 30min, he drove to town C where he arrived at 1:00pm.

a) Find his average speed for the whole journey. (3mks)

b) When did he start his journey?

29. Abbey went shopping and bought

- $1\frac{1}{2}$ dozens of books at shs 800 a book.
- 2kg of rice at shs.3200 a kilogram.
- 500ml of oil at sh 5000 a litre.

If he went with 3 notes of ten thousand shillings, how much was his change?

(5mks)

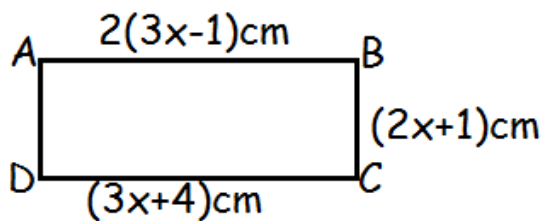
30. A cylindrical bucket can hold 2.04 litres of water when completely full. When 0.5 litres of water are removed, the remaining water lowers to a height of 10cm. Workout the radius of the bucket.

(Use $\pi = \frac{22}{7}$)

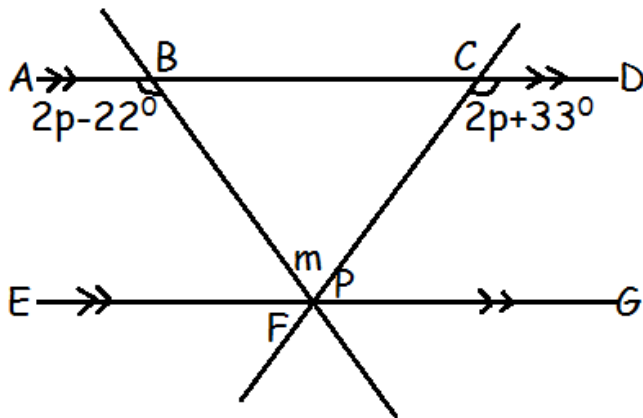
(04 Marks)

31 Below is rectangle ABCD. Use it to answer question that follow.

Calculate the area of the rectangle above.



32. ABCD and AD is parallel to EG as shown below.



a) Find the size of angle CFG

(2mks)

b) Find the size of angle m in degrees.

(3mks)

*****GOD BLESS*****